

16 MAY 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number  
WO 2004/045273 A1

(51) International Patent Classification<sup>7</sup>: A01G 31/04

(21) International Application Number:  
PCT/CA2003/001789

(22) International Filing Date:  
19 November 2003 (19.11.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2,412,073 19 November 2002 (19.11.2002) CA

(71) Applicant (*for all designated States except US*): STOREY, Betty [CA/CA]; #10 - 954 S.W. Marine Drive, Vancouver, British Columbia V6P 5Z2 (CA).

(71) Applicant and

(72) Inventor: MARCHILDON, Ted [CA/CA]; #10 - 954 S.W. Marine Drive, Vancouver, British Columbia V6P 5Z2 (CA).

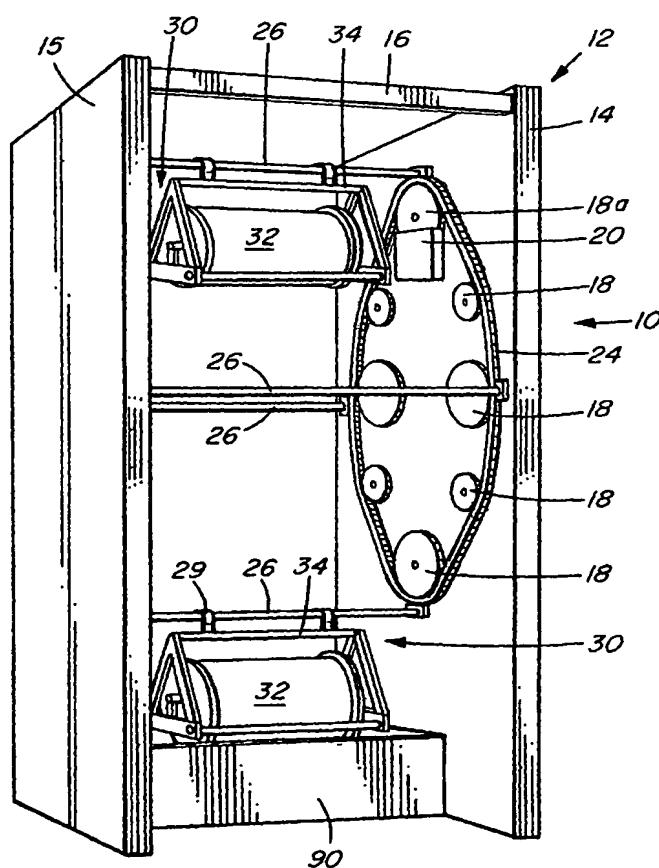
(74) Agents: MCGRUDER, David, J. et al.; Oyen Wiggs Green & Mutala, 480 - The Station, 601 West Cordova Street, Vancouver, British Columbia V6B 1G1 (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: PLANT GROWING APPARATUS



(57) Abstract: A plant-growing apparatus (10) has a plurality of rotatable plant-growing modules (32) which can be moved between two positions, separated vertically or horizontally. Each module (32) comprises a cylindrical structure for holding plant-growing containers (80) in which the plants grow radially inwardly of the cylindrical structure toward a light source (68). The apparatus (10) has module support means for supporting each module and rotating it in a substantially horizontal position. The apparatus has module moving means, for example sprocket driven chains (24,25), for conveying the modules between the two positions.

WO 2004/045273 A1



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 29/2004 of 15 July 2004, Section II

**Published:**

- *with international search report*
- *with amended claims*

**Date of publication of the amended claims:**

10 September 2004

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*